



Service Bulletin

File In Section: 06 - Engine/Propulsion System

Bulletin No.: 06-06-01-002

Date: January, 2006



SERVICE MANUAL UPDATE

Subject: Revised Oil Pan Replacement Procedure

Models: 2005-2006 Chevrolet Malibu
2005-2006 Pontiac G6
with 3.5L Engine and 4T45-E Transaxle

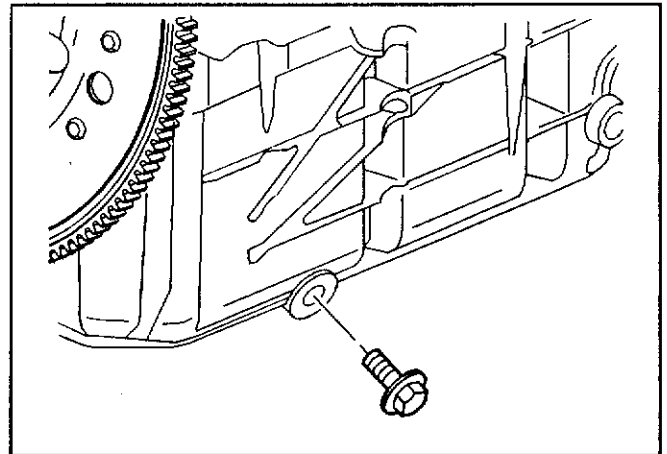
This bulletin is being issued to revise the Oil Pan Replacement procedure in the Automatic Transaxle sub-section of the Service Manual. Please replace the current information in the Service Manual with the following information.

The following information has been updated within SI. If you are using a paper version of this Service Manual, please make a reference to this bulletin on the affected page.

Oil Pan Replacement

Important: Some vehicles may be equipped with a automatic transaxle to oil pan lower brace. If the vehicle is equipped with this brace, the brace boss on the transaxle may interfere with oil pan removal.

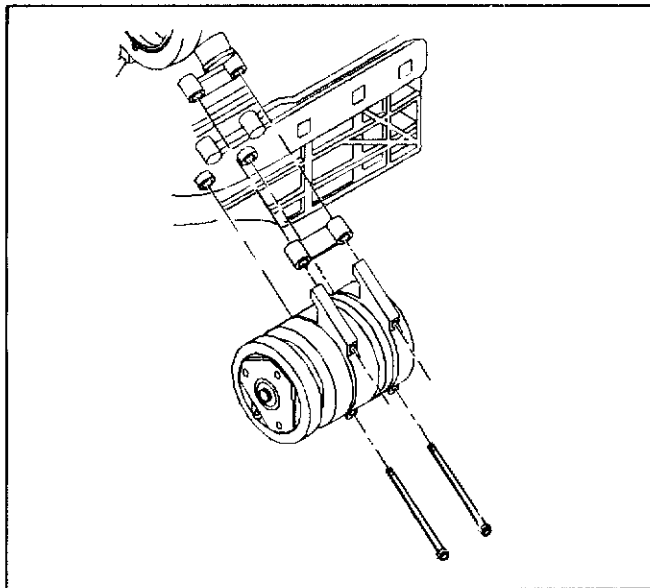
Removal Procedure



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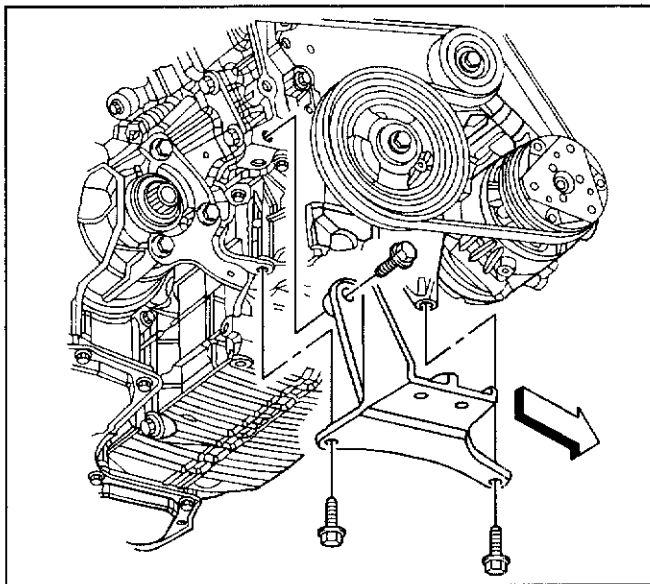
1. Disconnect the negative battery cable. Refer to Battery Negative Cable Disconnect/Connect Procedure.
2. Install the engine support fixture. Refer to Engine Support Fixture.
3. Raise and support the vehicle. Refer to Lifting and Jacking the Vehicle.
4. Place a suitable drain pan under the oil pan drain plug.
5. Remove the oil pan drain plug and drain the engine oil from the crankcase.
6. Reinstall the oil pan drain plug until snug.
7. Remove the starter. Refer to Starter Motor Replacement.

8. Remove the oil filter adapter. Refer to Oil Filter Adapter and Bypass Valve Assembly Replacement.



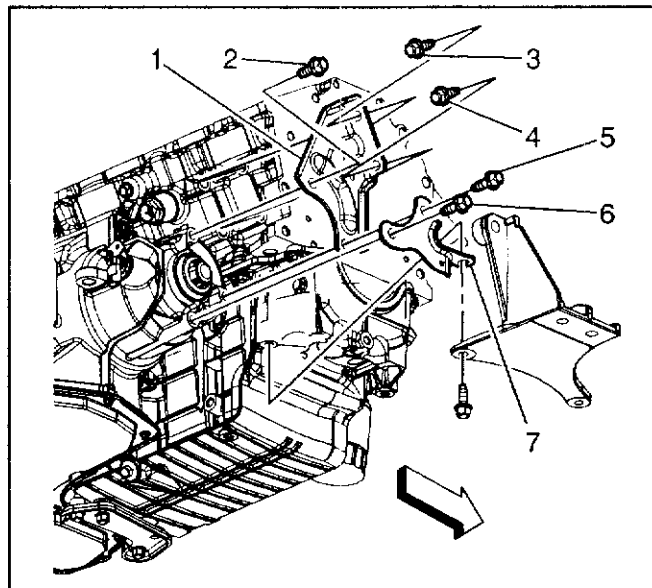
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9. Remove the air conditioning (A/C) compressor bolts and reposition the compressor aside.



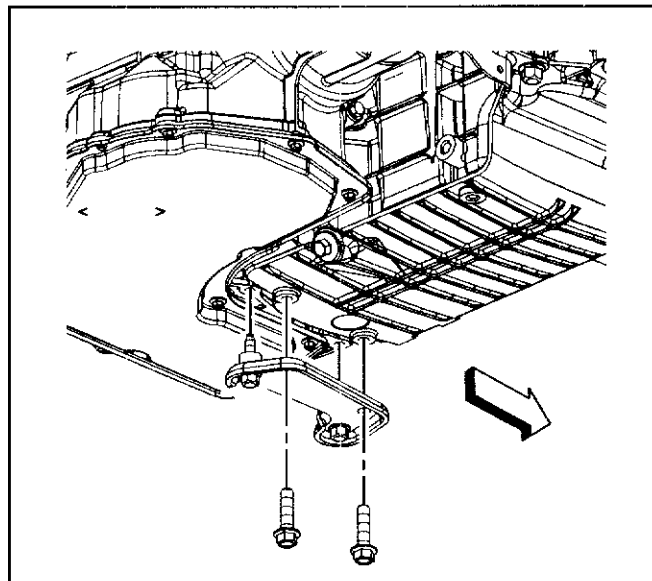
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10. Remove the engine mount bracket bolts and bracket.



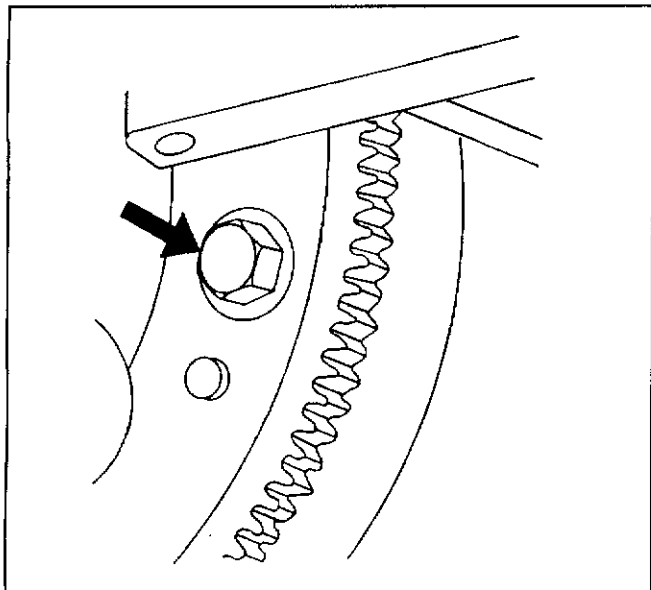
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11. Remove the transaxle brace bolts (5 and 6) and remove the brace (7).



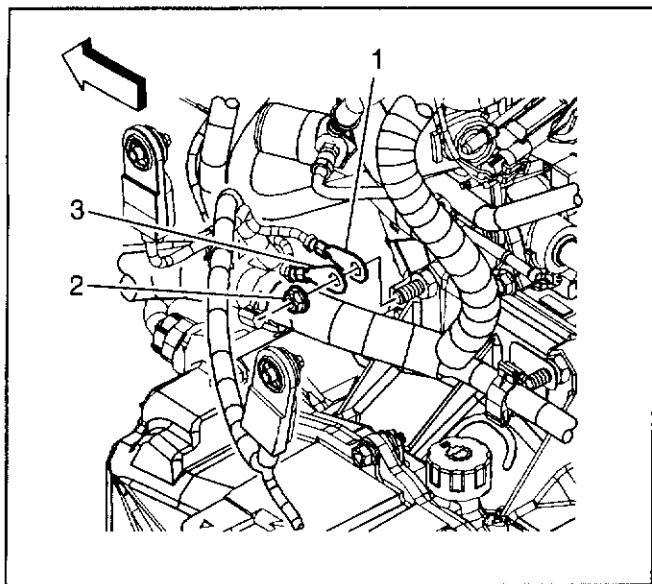
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12. Remove the transaxle to oil pan brace bolts and brace, if equipped.



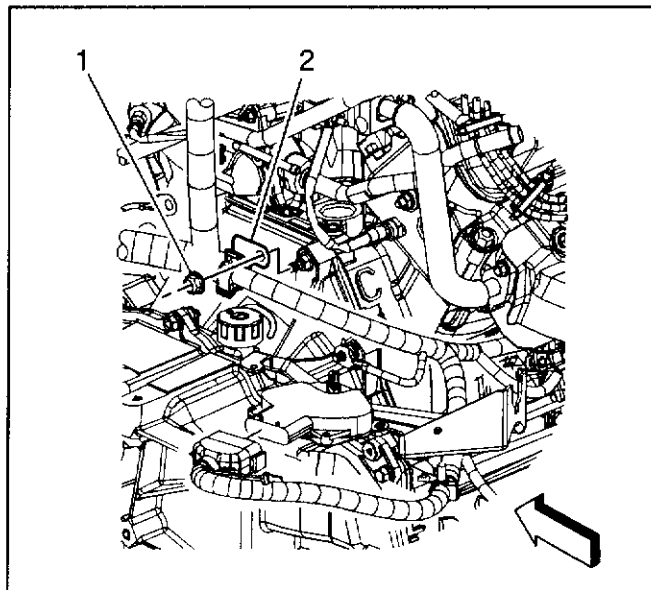
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13. Remove the flexplate to torque converter bolts.
14. Lower the vehicle.



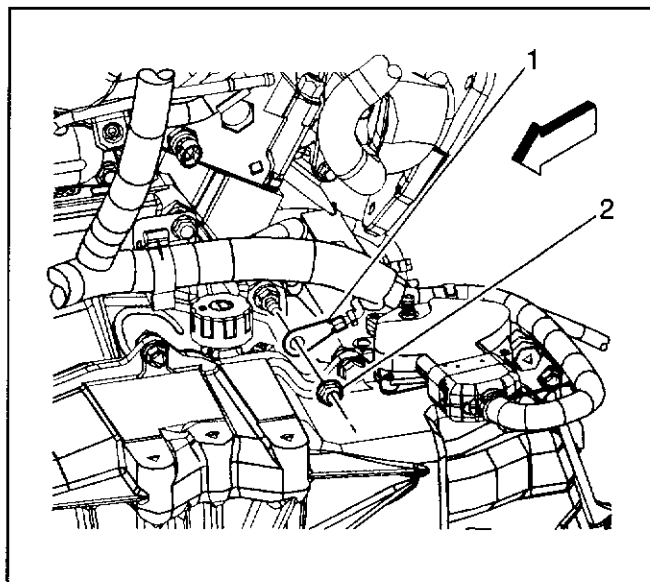
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15. Remove the engine harness ground nut (2) from the transaxle stud.
16. Remove the engine wiring harness ground (3) and the negative battery cable ground (1) from the transaxle stud.



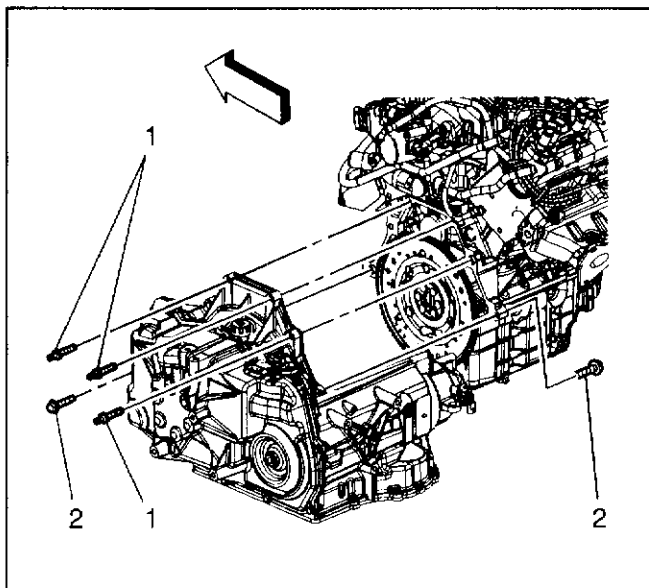
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17. Remove the engine wiring harness clip nut (1) from the transaxle stud.
18. Remove the engine wiring harness clip (2) from the transaxle stud.



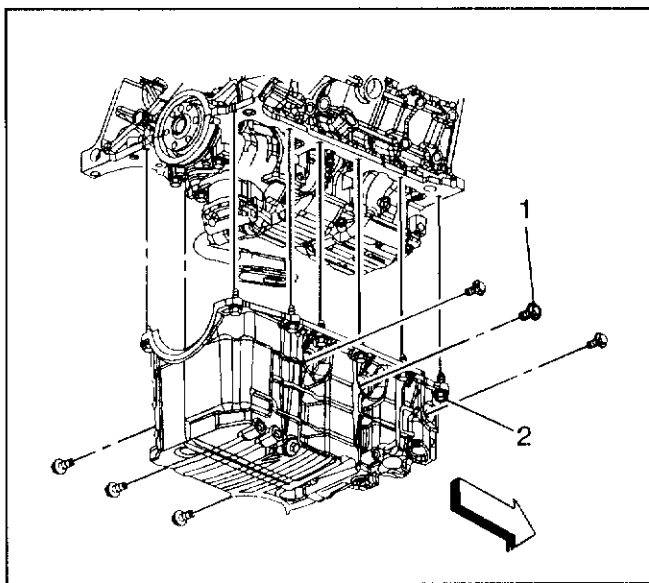
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19. Remove the engine wiring harness ground nut (2) from the transaxle stud.
20. Remove the engine wiring harness ground (1) from the transaxle stud.



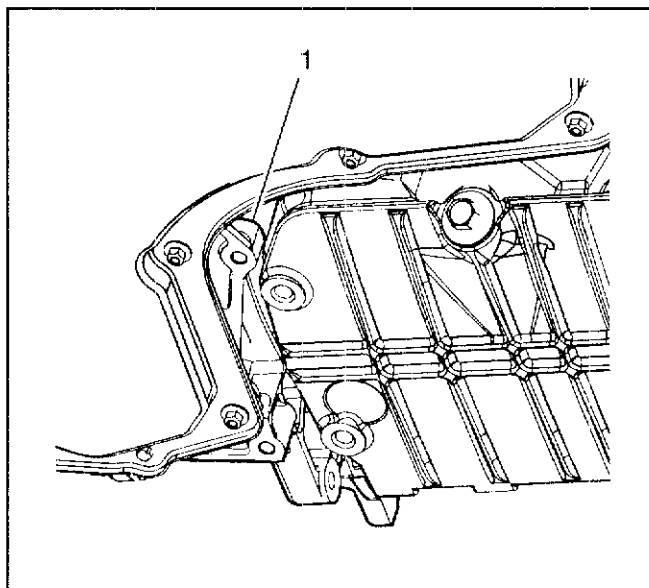
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21. Loosen, DO NOT REMOVE the transaxle studs (1) and bolts (2).
22. Using the engine support fixture, raise the engine and transaxle slightly.
23. Raise and support the vehicle.



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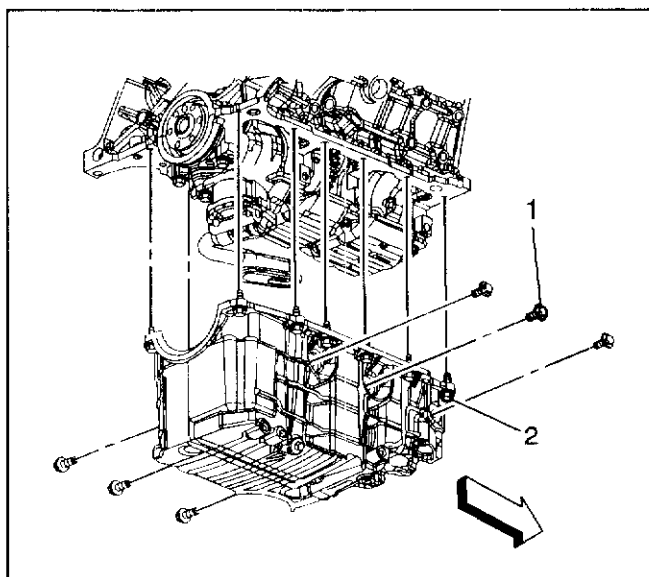
24. Remove the oil pan bolts (1 and 2).
25. Separate the engine and transaxle approximately 13 mm (1/2 inch).



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26. Ensure that when removing the oil pan, the pan clears the boss (1) on the transaxle.
27. Remove the oil pan, if the oil pan cannot be removed, lower the vehicle and perform Steps 21 and 23 again until the pan can be removed.
28. Remove and discard the oil pan gasket.
29. Clean the oil pan sealing surfaces.

Installation Procedure



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1. Apply sealer to both sides of the front cover/block mating area. Refer to Sealers, Adhesives and Lubricants.
2. Apply sealer to both sides of the crankcase rear main bearing cap. Press the sealer into the gap using a putty knife. Refer to Sealers, Adhesives and Lubricants.

3. Install a NEW oil pan gasket.

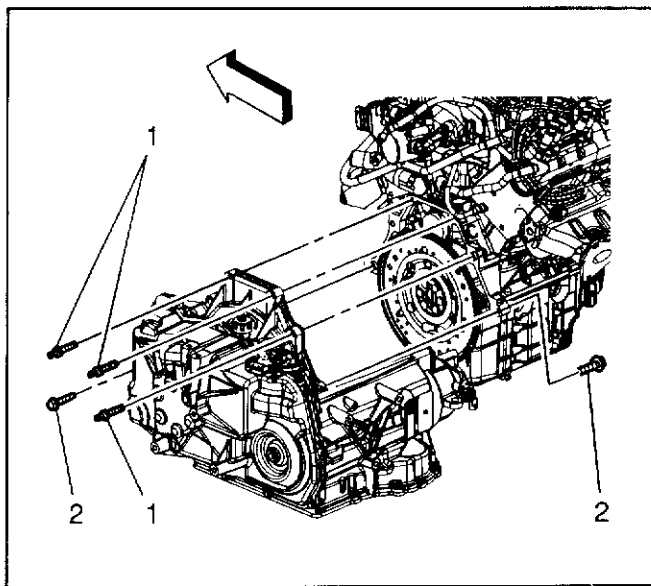
4. Install the oil pan.

Notice: Refer to Fastener Notice.

5. Install the oil pan bolts (1 and 2).

Tighten

- Tighten the bolts (1) to 50 N·m (37 lb ft).
- Tighten the bolts (2) to 25 N·m (18 lb ft).



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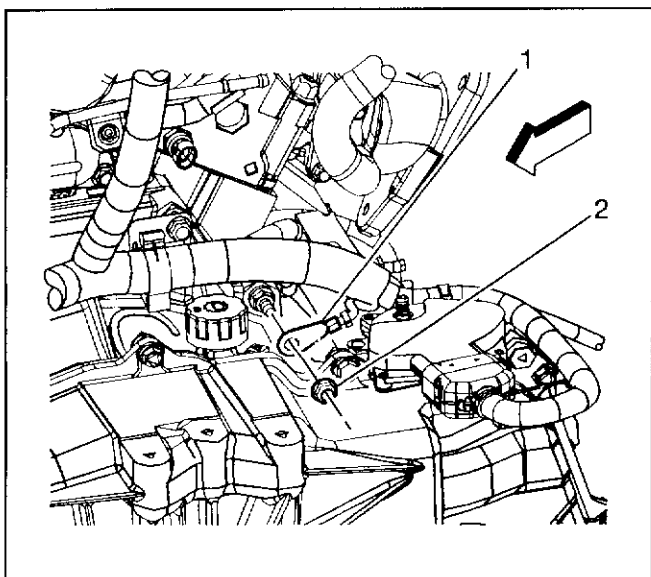
6. Lower the vehicle.

7. Using the engine support fixture, lower the engine and transaxle.

8. Tighten the transaxle studs (1) and bolts (2).

Tighten

Tighten the bolts/studs to 90 N·m (66 lb ft).



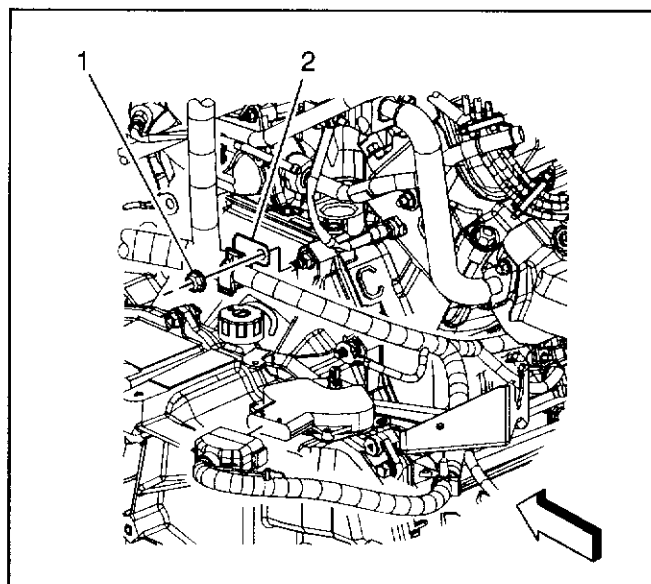
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9. Install the engine wiring harness ground (1) to the transaxle stud.

10. Install the engine wiring harness ground nut (2) to the transaxle stud.

Tighten

Tighten the nut to 25 N·m (18 lb ft).



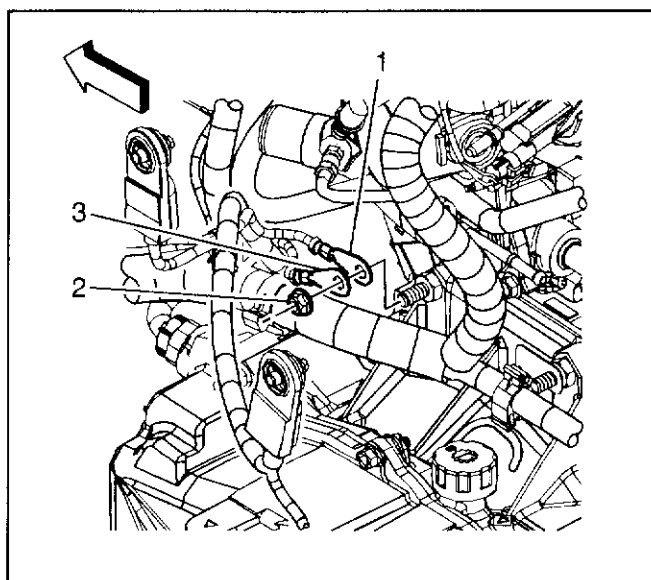
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11. Install the engine wiring harness clip (2) to the transaxle stud.

12. Install the engine wiring harness clip nut (1) to the transaxle stud.

Tighten

Tighten the nut to 25 N·m (18 lb ft).



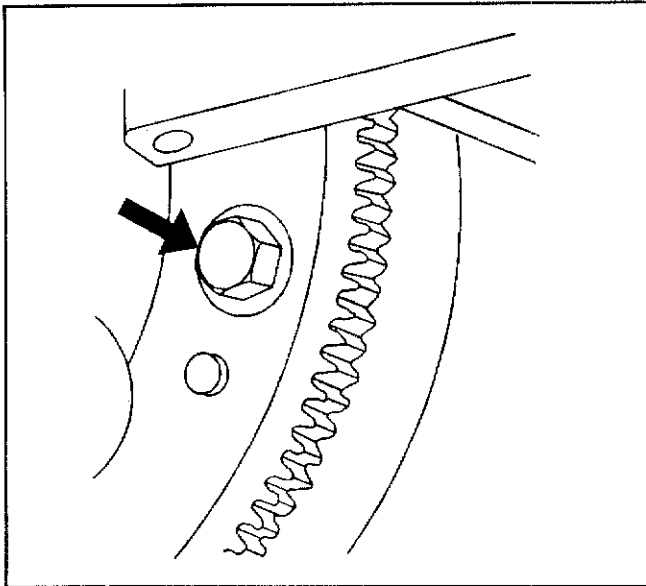
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13. Install the negative battery cable ground (1) and the engine wiring harness ground (3) to the transaxle stud.

14. Install the engine harness ground nut (2) to the transaxle stud.

Tighten

Tighten the nut to 25 N·m (18 lb ft).

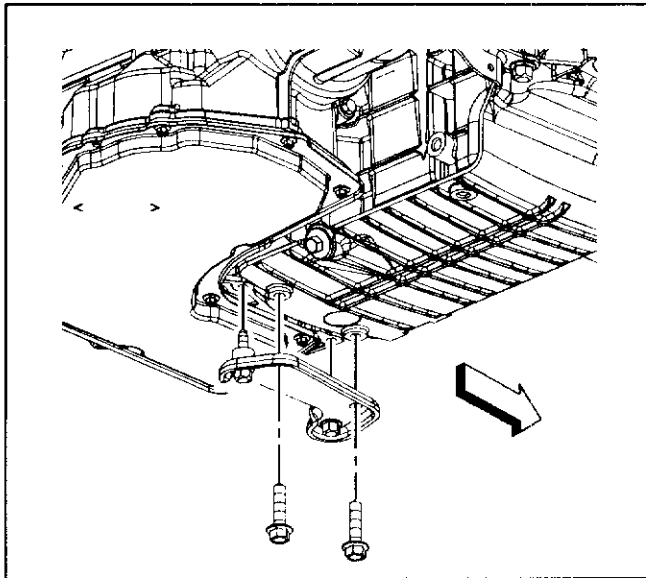


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15. Raise and support the vehicle.
16. Install the flexplate to torque converter bolts.

Tighten

Tighten the bolts to 62 N·m (46 lb ft).

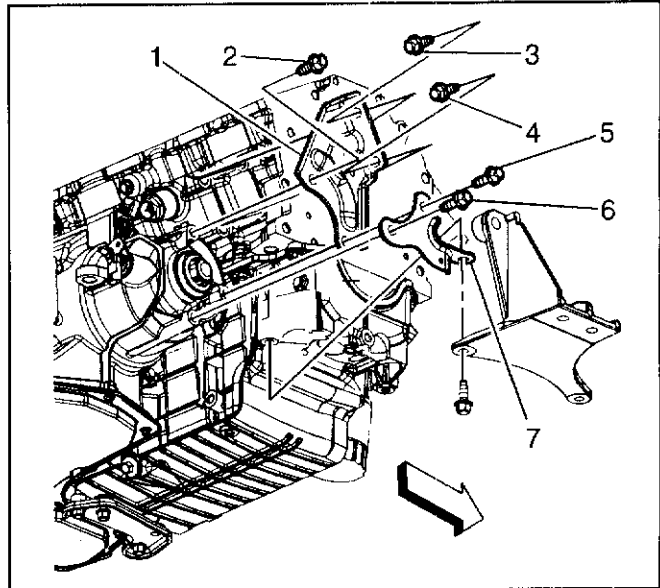


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17. Position the transaxle to oil pan brace and install the bolts, if equipped.

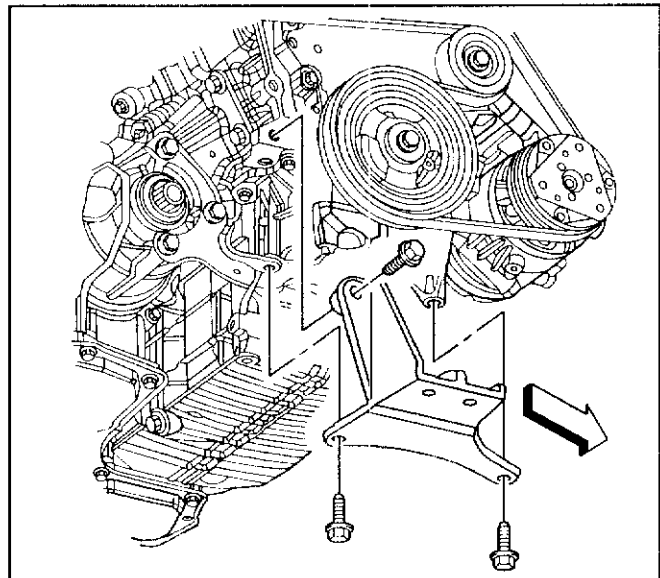
Tighten

Tighten the bolts to 50 N·m (37 lb ft).



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18. Position the transaxle brace (7) to the transaxle and install the bolts (5 and 6) until snug.

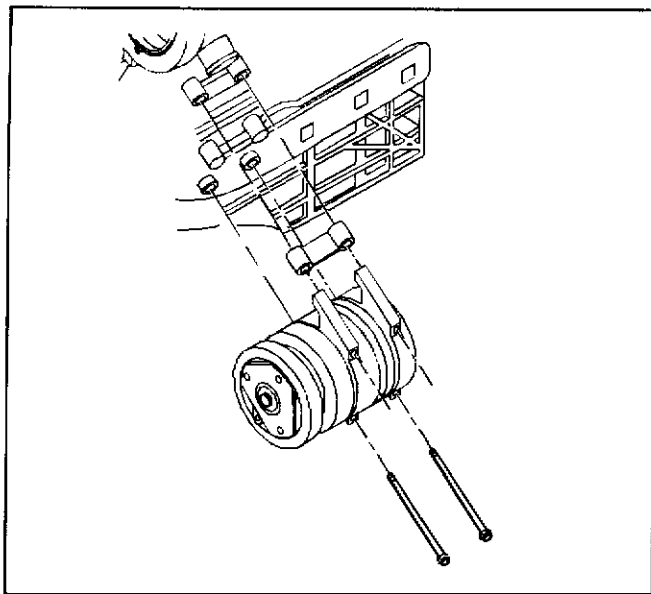


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19. Position the engine mount bracket to the engine and install the bolts until snug.
20. Tighten the engine mount bracket bolts and transaxle brace bolts.

Tighten

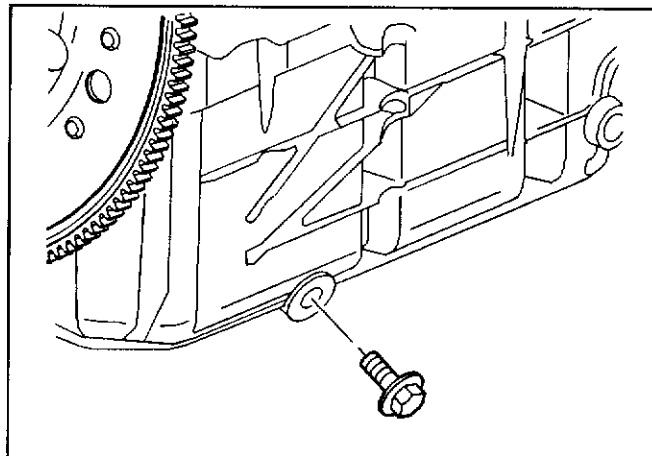
- Tighten the engine mount bracket upper bolt to 90 N·m (66 lb ft).
- Tighten the engine mount bracket lower bolts to 50 N·m (37 lb ft).
- Tighten the transaxle brace bolts to 50 N·m (37 lb ft).



21. Position the A/C compressor and install the bolts.

Tighten

Tighten the bolts to 50 N·m (37 lb ft).



22. Install the oil filter adapter. Refer to Oil Filter Adapter and Bypass Valve Assembly Replacement.
23. Install the starter. Refer to Starter Motor Replacement.
24. Ensure that the oil pan drain plug is tightened.

Tighten

Tighten the drain plug to 26 N·m (19 lb ft).

25. Lower the vehicle.
26. Remove the engine support fixture.
27. Fill the crankcase with oil.
28. Connect the negative battery cable. Refer to Battery Negative Cable Disconnect/Connect Procedure.
29. Start the vehicle and inspect for leaks.